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February 17, 1997

SUBJECT: Bull Evaluation and Daughter Lists for Breed Associations (February 1997)

TO: Executive Secretaries, Breed Associations

FROM: H.D. Norman, Research Leader, AIPL H. Duane Norman

Enclosed are 48X-reduction microfiche with bull evaluation and daughter (BEAD) lists for your breed's registered sires that had February 1997 USDA-DHIA genetic evaluations. To have a BEAD list released, bulls in artificial-insemination (AI) service were required to have a birth date of January 1, 1986, or later; all non-AI bulls were required to have a birth date of January 1, 1989, or later. Since the last released evaluation bulls also must have a change in the sum of fat and protein of more than 5 pounds, or a change of more than 10 pounds if the bull's daughters are in only one herd. For more details, see the enclosure "Explanation of Bull Evaluation and Daughter List." If you provided the bull-owner name and address requested by the Animal Improvement Programs Laboratory, it has been included. Your cooperation in providing names and addresses is helping all bull owners to assess the merit of their bulls compared with competing bulls.

A BEAD list was sent directly to each bull owner. For AI bulls, BEAD lists were sent to AI organizations.

Economic values assigned to predicted transmitting abilities (PTA's) in the milk and fat dollars index (MF$) and in the milk, fat, and protein dollars index (MFP$) were based on a milk price of $12.30 per hundredweight of milk with 3.5-percent fat and 3.2-percent protein and differentials of 8.0 cents for fat and 20.0 cents for protein. These values are a prediction of price relationships that will apply when cows from this year's matings are being milked. They are not expected to change until the base change in 2000. Thus,

MF$ = $.095 (PTA milk) + $.80 (PTA fat)

MFP$ = $.031 (PTA milk) + $.80 (PTA fat) + $2.00 (PTA protein)

The cheese yield economic dollar index (CY$) is calculated for Ayrshires, Brown Swiss, Holsteins, Milking Shorthorns, and Red and
Whites by

CY$ = $.002218 (PTA milk) + $1.9960 (PTA fat) + $1.7299 (PTA protein)

and for Guernseys and Jerseys by

CY$ = $.002218 (PTA milk) + $.80 (PTA fat) + $3.1876 (PTA protein)

The PTA's for component percentages were calculated with breed averages for cows born in 1990.

The net merit dollars index (NM$) is based on MFP$ discounted for feed cost as well as on PTA's for productive life (PL) and somatic cell score (SCS):

NM$ = .7 (MFP$) + $11.30 (PTA PL) – $28.22 (PTA SCS – breed average SCS)

Average first-lactation SCS for cows born in 1990 were:

Ayrshire	3.15	Holstein	3.20
Brown Swiss	3.22	Jersey	3.30
Guernsey	3.35	Milking Shorthorn	2.88

Enclosures